



Standard Version

All SS (SS 316 Wetted Parts) Pressure Gauge Bourdon type

Special Features

- External zero adjustment (optional)
- Stainless steel case & measuring system
- Socket directly welded to case
- Dry and liquid filled version
- Standard followed EN 837-1 (for NS 100, 150 & 250 mm)
- CE marking (as per PED 97/23/EC) (for NS 100 mm & 150 mm)

Hydro-cleaning machines

Engine compressors

Suitable for corrosive

Presses

Turbines

Application

- Food & beverage

- Diesel engines & Refrigerating plants
- Chemical & Petrochemical industries
- Conventional & nuclear power plants

- Pharmaceutical
- Cryogenics
- **Pumps**

- Environments & gaseous or liquid media that will not obstruct the pressure system.

Specifications

Standard Version: 100 mm, 125 mm, 150 mm, 200 mm & 250 mm

±1.0% of F. S. Accuracy - 25°C to + 65°C Ambient temperature Process temperature Max 300°C Operating pressure range 75% of Scale Value

Over pressure limit < 100 bar : 125% of Max. Scale Value > 100 to < 600 bar : 115% of Max. Scale Value

excel

With External Zero Adjustment

> 600 to < 1600 bar : 110% of Max. Scale Value

Case & Bezel AISI 304 SS (Bayonet Type)

Bourdon AISI 316L SS

AISI 316 SS (Directly Welded to Case) Socket

Movement AISI 304 SS

Joints Tig Argon Arc Welding

Protection

Dial Aluminium, black graduation on white background Pointer Aluminium, black coloured Micrometer zero adjustable

Neoprene

Window **Toughened Glass** Blow off Disc Neoprene

Dry But Fillable Version (Option DFG)

Fillable Dampening Liquid Glycerine 99.7% (Option - DFG)

Ambient Temperature Maximum 65°C **Process Temperature** Maximum 100°C Window Toughened Glass Other Features

Refer Specification of Standard Version

Glycerine Filled Version (Option LGF)

Accuracy ±1.0% of F.S. Ambient Temperature : Maximum 65°C Process Temperature : Maximum 100°C Toughened Glass

Dampening Liquids Glycerine 99.7% (others available as option) Other Features Refer Specification of Standard Version

Temperature effect:

Gasket & Filling Plug

The variation of indication caused by effects of temperature is to be calculated by below formula; which is to be added in the specified accuracy while measurement: Formula: ± 0.04 x (t2 - t1) % of F. S. where t1 = reference temperature (+20°C) and t2 = ambient temperature in °C.

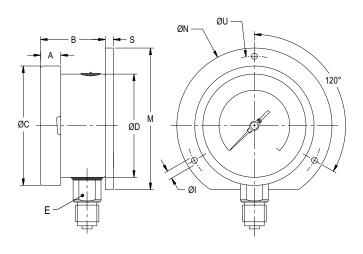


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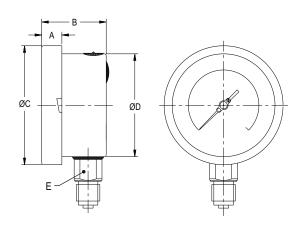
Dimensions - Standard Version

TYPE 1

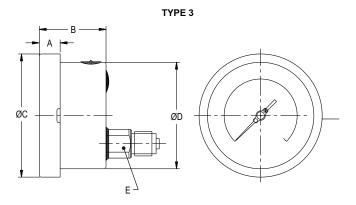


NS	A	В	øс	ØD	E	М	s	ØΙ	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	45	111	100	22	128	5	6	134	118	720.0	1025.0
125	15	46	129	119	22	143	5	6	150	137	845.0	1165.0
150	15	47	161	149	22	174.5	5	6	186	168	1160.0	1895.0
200	18	49	216	200	22	229	1.5	7	245	230	2020.0	2780.0
250	18	55	262	247	22	286.5	1.5	7	290	276	2400.0	3220.0

TYPE 2

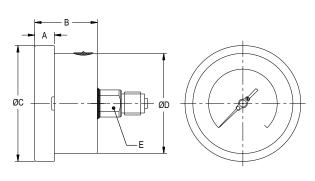


NS	A	В	øс	ØD	Е	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1020.0	1755.0
200	18	49	216	200	22	1720.0	2480.0
250	18	55	263	248	22	2000.0	2820.0



NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0
125	15	48	129	119	22	750.0	1070.0
150	15	49	161	149	22	1000.0	1735.0
200	18	49	216	200	22	1500.0	2260.0
250	18	52	263	248	22	1800.0	2620.0

TYPE 4



NS	Α	В	øс	ØD	E	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	47	111	100	22	640.0	935.0

Note : For Type 4 Back Side Blow Out Disc is Not Available



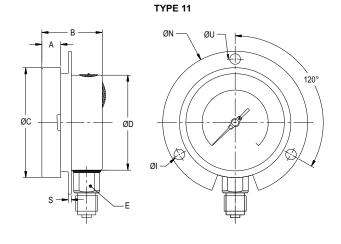
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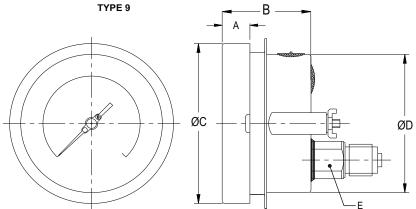
Dimensions - standard version

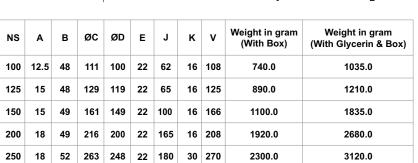
TYPE 5

NS	A	В	øс	ØD	E	s	ØI	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box
100	12.5	48	111	100	22	1	6	134	118	695.0	990.0
125	15	48	129	119	22	1	6	150	137	850.0	1170.0
150	15	49	161	149	22	1	6	186	168	1100.0	1835.0
200	18	49	216	200	22	1.5	7	245	230	2000.0	2760.0
250	18	52	263	248	22	1.5	7	290	276	2250.0	3070.0



NS	A	В	øс	ØD	E	s	ØΙ	ØN	øυ	Weight in gram (With Box)	Weight in gram (With Glycerin & Box)
100	12.5	48	111	100	22	1	6	134	118	730.0	1025.0
125	15	48	129	119	22	4	6	150	137	815.0	1135.0
150	15	49	161	149	22	5	6	186	168	1100.0	1835.0





Notes: • Drawings are not to scale. • All Dimensions are in mm . • NS = Nominal size

• Weights mentioned are approximate and for standard product. Weight can be different after selection of options.

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Range Table

Note: We offer National / International Scales like kPa, MPa, bar, psi, kg/cm² & Dual Scale like kPa with psi, kPa with bar, bar with psi or Equivalent scales as per the requirement can be provided on request. Following are the example tables for kg/cm2 psi scales.

Pressure									
Single Scale (kg/cm² o	Single Scale (kg/cm² or bar)								
0/0.6	0/4	0/25	0/160	0/1000					
0/1	0/6	0/40	0/250	0/1600					
0/1.6	0/10	0/60	0/400						
0/2.5	0/16	0/100	0/600						
Dual Scale (psi with kg/	cm²)								

Duai	Scale	(psi	with	kg/cm-)
		psi		

psi	kg/cm²	psi	kg/cm²	psi	kg/cm²
0/15	0/1	0/400	0/28	0/4000	0/280
0/30	0/2	0/500	0/35	0/5000	0/350
0/60	0/4	0/600	0/40	0/6000	0/420
0/100	0/7	0/1000	0/70	0/10000	0/700
0/150	0/10	0/1500	0/100	0/15000	0/1000
0/230	0/16	0/2300	0/160	0/23000	0/1600
0/300	0/20	0/3000	0/200		

Vacuum & Compound

Dual Scale (inHg with psi & mmHg with kg/cm²)

, ,		,			
inHg with psi	mmHg with kg/cm ²	inHg with psi	mmHg with kg/cm²	inHg with psi	mmHg with kg/cm ²
- 30/0	- 760/0	- 30/60	- 760/4	- 30/200	- 760/14
- 30/15	- 760/1	- 30/100	- 760/7	- 30/300	- 760/21
- 30/30	- 760/2	- 30/150	- 760/10	- 30/350	- 760/25

Single Scale (kg/cm²)

- 1/0	- 1/1.5	- 1/5	- 1/15
- 1/0.6	- 1/3	- 1/9	- 1/24

Receiver

Linear scale	Square root scale			
(0 - 100% Internal Scale)	(0 - 10 Sq - Root Internal Scale)			
External Scale	External Scale			
0.2 - 1 kg/cm² or 3 - 15 psi	0.2 - 1 kg/cm² or 3 - 15 psi			
(0-100% linear scale)	(0.2 - 1 kg/cm ²)			

Freon (with temperature scale)

Ammonia (with temperature scale)

Note: For temperature scales, please provide refrigerant name.

Range (psi)		(kg/cm²)	(psi)
-30 inHg - 150	0-300	-1to12.5	-30 inHg - 150
-30 inHg - 300	0-500	-1to16	-30 inHg - 300
		-1to25	0 - 300

Accessories (refer datasheet for complete specifications)

CT Cooling tower	GS	Over load protector (gauge saver)**	SN	Snubber
GC Gauge cock	*	Needle valve	SP	Siphon
* Refer catalogue for Valves & Manifolds.		** For Pressure Ranges.		

Note: For Any Non Standard or Special Scale Marking Consult Factory



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Basic	Model							١			
Code											
Nomin	al Size		40	45	60	80	100)			
			100 mm	125 mm	150 mm	200 mm	250 mm				
Гуре с	f Mounting							Х			
1	Wall / surface / projection mounting with b	ottom entry									
2	Direct bottom entry										
3	Direct lower back entry										
4 5	Direct center back entry (for NS 100 mm o					X					
6	Lower back entry with front flange 2" pipe / yoke mounting with bottom entry*							0			
7	Direct bottom entry with mounting bracket							Х			
9											
11	Bottom entry with front flange (for NS 100) mm, 125 mm & 150 mm)								
12	Center back entry with front flange		-								
15	Lower back entry With front flange & Brace	ket									
MOC	of bracket and 'U' clamp will be stee	l (painted). Ask facto	ry for drawings	if required	l.						
Gauge	Connection	Nominal Size >	40	45	60	80	100				
2BM	1/4" BSP (M)		V	V	~	×	×				
2NM	1/4" NPT (M)		V	V	V	×	×				
2TM	1/4" BSPT (M)	✓	✓	V	×	×					
3BM	3/8" BSP (M)	v *	V	✓	~	~					
3ТМ	3/8" BSPT (M)		~	V	V	~	V	X			
4BM	½" BSP (M) Standard	<i>V</i>	V		V	~	, ,				
4NM	½" NPT (M) Standard			V	V	V	V				
4TM	½" BSPT (M)	<i>V</i>	V	<i>V</i>	<i>V</i>						
4MM	M20x 1.5 (M)		<i>V</i>	<i>V</i>		V					
			•								
	dard for NS 100 mm.										
	Connections like Metric / UNF etc	c. can be provided o	n request.					_			
Range	ange table							0/ kg/			
	nal Extras										
•				n/o							
ACE	Accuracy ± 0.5% of F. S. (for dry version)			IVS	Internal vacuum stop						
AC5	Monel bourdon & socket (Monel version)**	VPO ON - OFF type	vent plug	REC	•			Х			
MBS	Integral demonstra acress (Manal)	IDD IDD		FRE							
MBS DSM	Integral dampening screw (Monel)	IBR IBR approval #	was band di-1 444	A B.4.C	Ammonio						
MBS DSM LGF	Dampening liquid glycerine filled	APM Anti parallax mi		AMO							
MBS DSM LGF LSI	Dampening liquid glycerine filled Dampening liquid silicon oil filled*	APM Anti parallax min		CBS	AISI 316 SS case &	bezel					
MBS DSM LGF LSI PLG	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass	APM Anti parallax min EZA External zero ac STP SS tag plate	djustment	CBS MOS	AISI 316 SS case & AISI 316 SS movem	bezel ent					
MBS DSM LGF LSI PLG STG	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass	APM Anti parallax min EZA External zero ad STP SS tag plate TND Tag No. marking	djustment g on Dial	CBS MOS BK4	AISI 316 SS case & AISI 316 SS movem 'U' clamp (AISI 304 S	bezel ent SS)					
MBS DSM LGF LSI PLG STG MDJ	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass Movement with dampening jelly	APM Anti parallax min EZA External zero ad STP SS tag plate TND Tag No. marking HLT Helium leak test	djustment g on Dial	CBS MOS BK4 BKS	AISI 316 SS case & AISI 316 SS movem 'U' clamp (AISI 304 S' 'U' clamp (AISI 316 S	bezel eent SS) SS)	4.00)				
MBS DSM LGF LSI PLG STG MDJ KEP	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass Movement with dampening jelly Knife edge pointer	APM Anti parallax min EZA External zero ad STP SS tag plate TND Tag No. marking HLT Helium leak test CNS Conformity as p	djustment g on Dial t er NACE Standard	CBS MOS BK4 BKS PY4	AISI 316 SS case & AISI 316 SS movem 'U' clamp (AISI 304 S' 'U' clamp (AISI 316 S' 2" pipe/yoke mounting	bezel ent SS) SS) ng bracket (AISI 30					
MBS DSM LGF LSI PLG STG MDJ	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass Movement with dampening jelly Knife edge pointer Maximum reading pointer with plexi glass	APM Anti parallax min EZA External zero ad STP SS tag plate TND Tag No. marking HLT Helium leak test CNS Conformity as p TRC Calibration certi	djustment g on Dial t er NACE Standard ficate traceable to	CBS MOS BK4 BKS PY4 PYS	AISI 316 SS case & AISI 316 SS movem 'U' clamp (AISI 304 S' 'U' clamp (AISI 316 S' 2" pipe/yoke mounting 2" pipe/yoke mounting	bezel ent SS) SS) ng bracket (AISI 30 ng bracket (AISI 31					
MBS DSM LGF LSI PLG STG MDJ KEP MRP	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass Movement with dampening jelly Knife edge pointer Maximum reading pointer with plexi glass (except option AC5 & for dry version)	APM Anti parallax min EZA External zero ad STP SS tag plate TND Tag No. marking HLT Helium leak test CNS Conformity as p TRC Calibration certi National/Internal	djustment g on Dial t er NACE Standard ficate traceable to tional standards	CBS MOS BK4 BKS PY4 PYS DFG	AISI 316 SS case & AISI 316 SS movem 'U' clamp (AISI 304 3' 'U' clamp (AISI 316 32" pipe/yoke mountin 2" pipe/yoke mountin Dry But Fillable Vers	bezel ent SS) SS) ng bracket (AISI 30 ng bracket (AISI 31 sion (Glycerin)					
MBS DSM LGF LSI PLG STG MDJ KEP	Dampening liquid glycerine filled Dampening liquid silicon oil filled* Plexi glass Shatterproof/safety glass Movement with dampening jelly Knife edge pointer Maximum reading pointer with plexi glass	APM Anti parallax min EZA External zero ad STP SS tag plate TND Tag No. marking HLT Helium leak test CNS Conformity as p TRC Calibration certification certification.	djustment g on Dial t er NACE Standard ficate traceable to tional standards (for dry version)	CBS MOS BK4 BKS PY4 PYS	AISI 316 SS case & AISI 316 SS movem 'U' clamp (AISI 304 S' 'U' clamp (AISI 316 S' 2" pipe/yoke mounting 2" pipe/yoke mounting	bezel ent SS) SS) ng bracket (AISI 30 ng bracket (AISI 31 sion (Glycerin)					

^{*} Gasket & Filling plug of for Viton. **Integral dampening screw will be in monel if ordered. Refer option DSM.

Ordering Example: WP6 - XX or XXX - X or XX - XXX - 0/10 kg/cm² - XXX

For other optional items, please contact factory for delivery and minimum order quantity.

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

^{***}Material test certificates will be provided for wetted parts only with chemical composition testing. For others, please consult factory.

For NS 150 mm & above. Scale shall be marked in kg/cm² or bar single Scale Only Consult factory for any Other scale requirement.

For NS 150 mm & Above. • For NS 100 mm to 150 mm.